

GAU 1645
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	09/650,337
		Filing Date	August 28, 2000
		First Named Inventor	William Dower
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
Total Number of Pages in This Submission	1	Attorney Docket Number	16528A000461

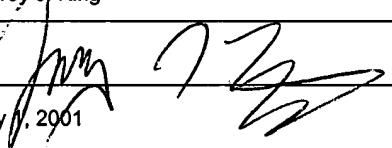
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ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Form 1449
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s)	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		Remarks
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm and Individual name	Townsend and Townsend and Crew LLP Jeffrey J. King	
Signature		
Date	May 1, 2001	

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:

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TOWNSEND and TOWNSEND and CREW LLP

By:

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PATENT

Attorney Docket No.: 16528A-000461US
Client Reference No.: 1003E (Parent)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William J. Dower, et al.

Application No.: 09/650,337

Filed: August 28, 2000

For: PEPTIDE LIBRARY AND
SCREENING SYSTEMS

Examiner: Unassigned

Art Unit: 1645

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 08/914,403 filed August 19, 1997 (now abandoned); and 07/541,108, filed June 20, 1990, now U.S. Patent No. 5,723,286 (Attorney Docket No. 16528A-000461US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants believe that their invention as claimed is patentable over the above references taken alone or in any combination. As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted

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William J. Dower, et al.
Application No.: 09/650,337
Page 2

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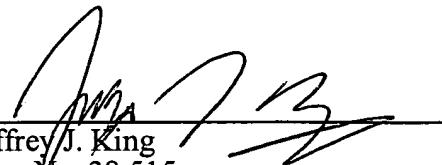
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or that this statement encompasses all the possible relevant information. No inference should be drawn as to the pertinence of the references based on the order in which they are presented.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Jeffrey J. King
Reg. No. 38,515

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
Tel: 206-467-9600
Fax: 415-576-0300
JKJ:lmp

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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Attorney Docket No.: 16528A-000461US	Application No.: 09/650,337		
			Applicant: William J. Dower, et al.			
			Filing Date: August 28, 2000	Group:		
Reference Designation U.S. PATENT DOCUMENTS						
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
AA	4,359,535	11/16/82	Pieczenik			
AB	4,593,002	06/03/86	Dulbecco			
AC	4,833,092	05/23/89	Geysen			
AD	4,910,140	03/20/90	Dower			
AE	5,096,815	03/17/92	Ladner et al.			
AF	5,223,409	06/29/93	Ladner et al.			
RECEIVED MAY 09 2001 TECH CENTER 1600/2900						
FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
AG	2,183,661	06/10/87	GB			
AH	87/01374	03/12/87	WO			
AI	88/05085	07/14/88	WO			
AJ	88/06630	09/07/88	WO			
AK	89/06694	07/27/89	WO			
AL	90/02809	03/22/90	WO			
AM	90/05144	05/17/90	WO			
AN	90/14424	11/29/90	WO			
AO	90/14430	11/29/90	WO			
AP	90/14443	11/29/90	WO			
AQ	91/17271	11/14/91	WO			
AR	91/18980	12/12/91	WO			
AS	92/01047	01/23/92	WO			
AT	92/07077	04/30/92	WO			
AU	92/09690	06/11/92	WO			
AV	90/15677	09/17/92	WO			
AW	92/15679	09/17/92	WO			
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)						
AX	Aruffo and Seed (1987), <u>Proc. Natl. Acad. Sci. USA</u> 84:8573-8577, "Molecular cloning of a CD28 cDNA by a high-efficiency COS cell expression system"					
AY	Barbas et al. (1991), <u>Proc. Natl. Acad. Sci. USA</u> 88:7978-7982, Assembly of combinatorial antibody libraries on phase surfaces: The gene III site"					
AZ	Barrett et al. (1992), <u>Anal. Biochem.</u> 204:357-364, "Selective enrichment and characterization of high affinity ligands from collections of random peptides on filamentous phage"					
BA	Bass et al. (1990), <u>Proteins: Structure, Function, and Genetics</u> 8:309-314, "Hormonephage: An enrichment method for variant proteins with altered binding properties"					
EXAMINER			DATE CONSIDERED			

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Attorney Docket No.: 16528A-000461US Applicant: William J. Dower, et al. Filing Date: August 28, 2000	Application No.: 09/650,337 Group:
BB	Better et al. (1988), <u>Science</u> 240:1041-1043, "Escherichia coli secretion of an active chimeric antibody fragment"		
BC	Boeke and Model (1982), <u>Proc. Natl. Acad. Sci. USA</u> 79:5200-5204, "A prokaryotic membrane anchor sequence: Carboxyl terminus of bacteriophage ϕ 1 gene III protein retains it in the membrane"		
BD	Bottger (1988), <u>BioTechniques</u> 6:878-80, "High-efficiency generation of plasmid cDNA libraries using electro-transformation"		
BE	Cesareni (1992), <u>FEBS Letters</u> 307:66-70, "Peptide display on filamentous phage capsids"		
BF	Cwirla et al. (1990), <u>Proc. Natl. Acad. Sci. USA</u> 87:6378-6382, "Peptides on phage: A vast library of peptides for identifying ligands"		
BG	de la Cruz et al. (1988), <u>J. Biol. Chem.</u> 263(9):4318-4322, "Immunogenicity and epitope mapping of foreign sequences via genetically engineered filamentous phage"		
BH	Devlin et al. (1990), <u>Science</u> 249:404-406, "Random peptide libraries: A source of specific protein binding molecules"		
BI	Dower et al. (1988), <u>Nucl. Acids Res.</u> 16(13):6127-6145, "High efficiency transformation of <i>E. coli</i> by high voltage electroporation"		
BJ	Felici et al. (1991), <u>J. Mol. Biol.</u> 222:301-310, "Selection of antibody ligands from a large library of oligopeptides expressed on a multivalent exposition vector"		
BK	Garrard et al. (1991), <u>Bio/Technology</u> 9:1373-1377, "FAB assembly and enrichment in a monovalent phage display system"		
BL	Geysen et al. (1987) <u>J. Immunol. Meth.</u> 102:259-274, "Strategies for epitope analysis using peptide synthesis"		
BM	Goldsmith and Konigsberg (1977), <u>Biochem.</u> 16(12):2686-2694, "Adsorption protein of the bacteriophage fd: Isolation, molecular properties, and location in the virus"		
BN	Greenwood et al. (1991), <u>J. Mol. Biol.</u> 220:821 -827, "Multiple display of foreign peptides on filamentous bacteriophage"		
BO	Harlow et al. (1988), <u>Antibodies: A Laboratory Manual</u> , Cold Spring Laboratory Press, Cold Spring Harbor, NY, pp. 23-35, "Antibody antigen interactions"		
BP	Heery and Dunican (1989), <u>Nucl. Acids Res.</u> 17(19):8006, "Improved efficiency M13 cloning using electroporation"		
BQ	Hoogenboom et al. (1991), <u>Nucl. Acids Res.</u> 19(15):4133-4137, "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains"		
BR	Huse et al. (1989), <u>Science</u> 246:1275-1281, "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda"		
BS	Il'ichev et al. (1990), <u>Molekulyarnaya Biologiya</u> 24:530-535, "M13 filamentous bacteriophage in protein engineering"		
BT	Jacobs et al. (1990), <u>Nucl. Acids Res.</u> 18(6):1653, "High-efficiency electro-transformation of <i>Escherichia coli</i> with DNA from ligation mixtures"		
BU	Kang et al. (1991), <u>Proc. Natl. Acad. Sci. USA</u> 88:4363-4366, "Linkage of recognition and replication funtions by assembling combinatorial antibody Fab libraries along phage surfaces"		
BV	McCafferty et al. (1990), <u>Nature</u> 348:552-555, "Phase antibodies: Filamentous phage displaying antibody variable domains"		
BW	Meo et al. (1983), <u>Proc. Natl. Acad. Sci. USA</u> 80:4084-4088, "Monoclonal antibody to the message sequence Tyr-Gly-Gly-Phe of opioid peptides exhibits the specificity requirements of mammalian opioid receptors"		
BX	Oliphant et al. (1986), <u>Gene</u> 44:177-183, "Cloning of random-sequence oligodeoxynucleotides"		
BY	Parmley and Smith (1988), <u>Gene</u> 73:305-31 8, "Antibody-selectable filamentous fd phage vectors: Affinity purification of target genes"		

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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Attorney Docket No.: 16528A-000461US	Application No.: 09/650,337
		Applicant: William J. Dower, et al.	
		Filing Date: August 28, 2000	Group:
<input type="checkbox"/> BZ	Parmley and Smith (1989), <u>Adv. Exp. Med. Biol.</u> 251:215-218, "Filamentous fusion phage cloning vectors for the study of epitopes and design of vaccines"		
<input type="checkbox"/> CA	Scott et al. (1990), in <u>Advances in Gene Technology: The Molecular Biology of Immune Diseases and the Immune Response</u> , Streilein et al. (eds), IRL Press, New York, pp. 224, "An epitope library"		
<input type="checkbox"/> CB	Scott and Smith (1990), <u>Science</u> 249:386-390, "Searching for peptide ligands with an epitope library"		
<input type="checkbox"/> CC	Shigekawa and Dower (1988), <u>BioTechniques</u> 6(8):742-751, "Electroporation of eukaryotes and prokaryotes: A general approach to the introduction of macromolecules into cells"		
<input type="checkbox"/> CD	Skerra and Pluckthun (1988), <u>Science</u> 240:1038-1041, "Assembly of a functional immunoglobulin F _v Fragment in <i>Escherichia coli</i> "		
<input type="checkbox"/> CE	Smith et al. (1990), <u>J. Cell. Biochem.</u> , Supp. 14C:246, abst. CK319 (19th Ann. Mgt., UCLA Symp. Mol. Cell. Biol., 3 Feb to 11 Mar), "An epitope library"		
<input type="checkbox"/> CF	Smith (1985), <u>Science</u> 228:1315-1317, "Filamentous fusion phage: Novel expression vectors that display cloned antigens on the virion surface"		
<input type="checkbox"/> CG	Ward et al. (1989), <u>Nature</u> 341:544-546, "Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> "		
<input type="checkbox"/> CH	Wilson and Gough (1988), <u>Nucl. Acids Res.</u> 16(24):11820, "High voltage <i>E. coli</i> electro transformation with DNA following ligation"		
<input type="checkbox"/> CI	Young and Davis (1983), <u>Science</u> 222:778-782, "Yeast RNA polymerase II genes: Isolation with antibody probes"		
<input type="checkbox"/> CJ	Zacher et al (1980), <u>Gene</u> 9:127-140, "A new filamentous phage cloning vector: fd-tet"		
EXAMINER		DATE CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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